This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims **1 – 7 (Canceled).**

Claim **8 (Currently Amended).** An electrochemical deposition apparatus for producing carbon nanoparticles comprising the components of:

(a) a container having a closed bottom portion and an open top portion, suitable for housing ~~an~~ electrochemical ~~bath of an organic solution~~ a liquid hydrocarbon selected from at least one of methanol, ~~and~~ benzyl alcohol and mixtures thereof ~~disposed between two electrodes;~~

(b) [[~~an~~]] a silicon wafer anode and a silicon wafer cathode each coated with catalytic nanoparticles of iron and nickel, wherein the anode and cathode are spaced apart and positioned in the bottom portion of the container as ~~the~~ two electrodes in a plurality of electrodes in said container; ~~and~~

(c) a magnetic stirrer for agitating the liquid hydrocarbon in the container; and

(d) [[~~(c)~~]] a power supply with an ammeter and a voltmeter connected between the anode and the cathode for imposing a direct current potential of approximately 1000 volts between ~~said~~ the two electrodes ~~to grow and deposit carbon nanoparticles from the organic solution under ambient conditions, on the electrodes in the electrochemical bath.~~ and providing a current density of approximately 12 milliamps per square centimeter between said the two electrodes for a time sufficient that carbon nanoparticles are deposited on ~~said~~ the two electrodes, wherein each of the carbon nanoparticles includes:

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a nanotube produced from the organic solution under ambient conditions having a diameter ranging from approximately 50 nm to approximately 100 nm and a length ranging from approximately 2 nm to approximately 50 μm.

Claims 9 - 17 **(Canceled).**

Claim 18 **(New).** The apparatus of Claim 8, wherein the container for housing the liquid hydrocarbon is made of at least one of glass or ceramic material.

Claim 19 **(New).** The apparatus of Claim 8, wherein the plurality of electrodes further includes a reference electrode to monitor the electrochemical activity in the container.

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